

This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1-11. (Canceled)

12. (New) A magazine-based data cartridge library comprising:

- a frame defining an interior space;

- a shelf system disposed within said interior space capable of supporting at least a first and second data cartridge magazine, wherein each of said data cartridge magazines capable of holding at least two data cartridges;

- a user definable space within said interior space sized to be capable of comprising at least one drive adapted to read and write data to and from one of said data cartridges when cooperating with said data cartridge;

- a magazine transport space interposed between said shelf system and said user definable space;

- a magazine transport device capable of moving one of said first or second data cartridge magazines within said magazine transport space.

13. (New) The library of claim 12 wherein said user definable space is sized to be capable of further comprising a second shelf system capable of supporting at least a third data cartridge magazine.

14. (New) The library of claim 12 wherein said magazine transport space is bounded by a first and a second face wherein said first face is defined by the interface between said magazine transport space and said shelf system and said second face is defined by the interface between said magazine transport space and said user definable space.

15. (New) The library of claim 14 wherein said first and second faces are substantially parallel planes.

16. (New) The library of claim 14 wherein said first and second faces are substantially concentric parallel planes.
17. (New) The library of claim 12 wherein at least a portion of said shelf or said user definable space overlaps said magazine transport space.
18. (New) The library of claim 12 wherein said magazine transport space can accommodate said first or second data cartridge magazines in an orientation substantially identical to an orientation of said first or second data cartridge magazine when supported by said shelf system.
19. (New) The library of claim 15 wherein a distance between said first and second faces as measured orthogonally is less than 150% of a length of said first or second data cartridge magazine as measured from a front face of said first or second data cartridge magazine to a rear face of said first or second data cartridge magazine, respectively.
20. (New) The library of claim 15 wherein said shelf system is attached to said frame.
21. (New) A magazine-based data cartridge library capable of performing the method steps of:
 - grasping a data cartridge magazine from a shelf system with a picking device;
 - transferring said data cartridge magazine from said shelf system to a magazine support disposed in a magazine transport space located between said shelf system and a user definable space opposite said shelf system;
 - positioning said data cartridge magazine when in said magazine transport space to facilitate cooperation of one of a plurality of data cartridges disposed in said data cartridge magazine with a drive disposed in said user definable space wherein said drive is adapted to store and retrieve data to and from said data cartridge.
22. (New) The library of claim 21, wherein said library is further capable of performing

the method step of maintaining constant directional orientation of said data cartridge magazine from when disposed in said shelf system through said positioning step.

23. (New) The library of claim 21, wherein said library is only capable of performing the method step of moving said data cartridge magazine when said data cartridge magazine is substantially resting on said magazine support.

24. (New) The library of claim 21, wherein said library is further capable of performing the method step of positioning said data cartridge magazine when in said magazine transport space to a second shelf system disposed in said user definable space.

25. (New) The library of claim 21, wherein said library is further capable of performing the method step of inserting said data cartridge into said drive from said data cartridge magazine wherein said data cartridge magazine remains at rest on said magazine support in said transport space in said constant directional orientation.

26. (New) A magazine-based data cartridge library comprising:
a frame defining an interior space;
a shelf system disposed within said interior space capable of supporting at least a first and second data cartridge magazine wherein each of said data cartridge magazines is capable of holding a plurality of data cartridges;
said shelf system adapted to reside in a vertical plane substantially bounded by a first front face and a first rear face;
a user definable space within said interior space sized to be capable of comprising at least one drive adapted to read and write data to and from one of said data cartridges when cooperating with said data cartridge;
said user definable space adapted to reside in a vertical plane substantially bounded by a second front face and a second rear face wherein said second front face opposes said first front face;
a magazine transport space interposed between said first front face and said second front face;

a magazine transport device capable of moving one of said first or second data cartridge magazines within said magazine transport space when said first or second data cartridge magazine is resting on a magazine support.

27. (New) The library of claim 25 wherein said data cartridge magazine when supported by said shelf system is in substantially an identical directional orientation as when supported by said magazine support.
28. (New) The library of claim 25 wherein said user definable space is sized to be capable of further comprising a second shelf system capable of supporting at least a third data cartridge magazine.
29. (New) The library of claim 25 wherein said first and second front faces are substantially parallel planes.
30. (New) The library of claim 25 wherein said first and second front faces are substantially concentric parallel planes.
31. (New) The library of claim 25 wherein at least a portion of said shelf or said user definable space overlaps said magazine transport space.